



State of CDC's Systems Portfolio and New Imperatives

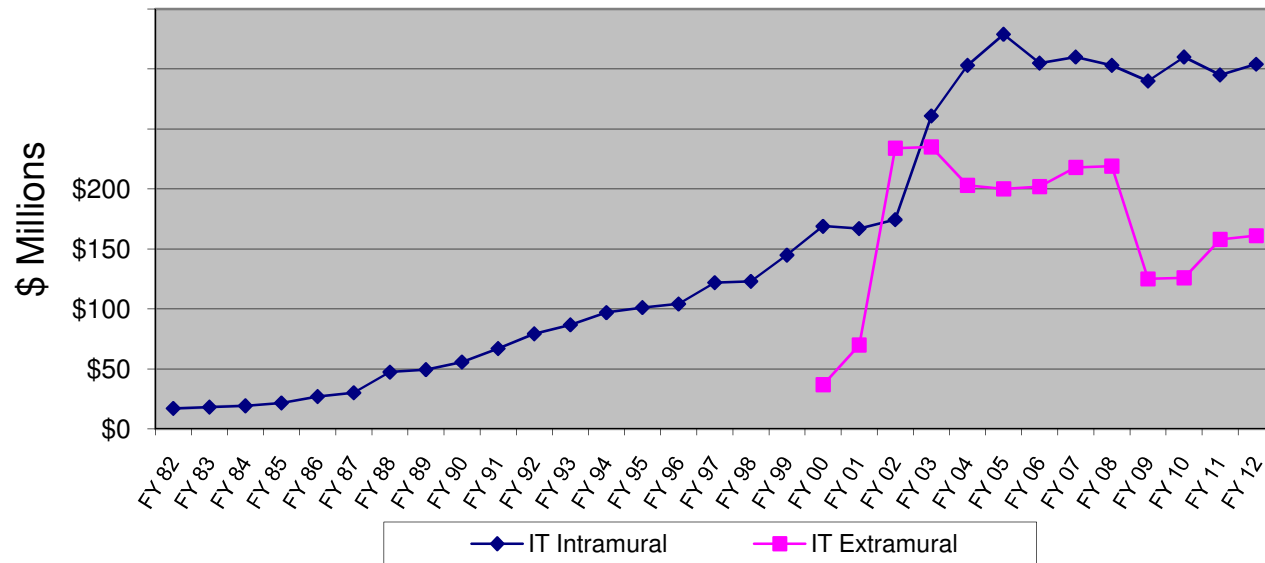
Jim Seligman
Chief Information Officer

CDC Information Systems

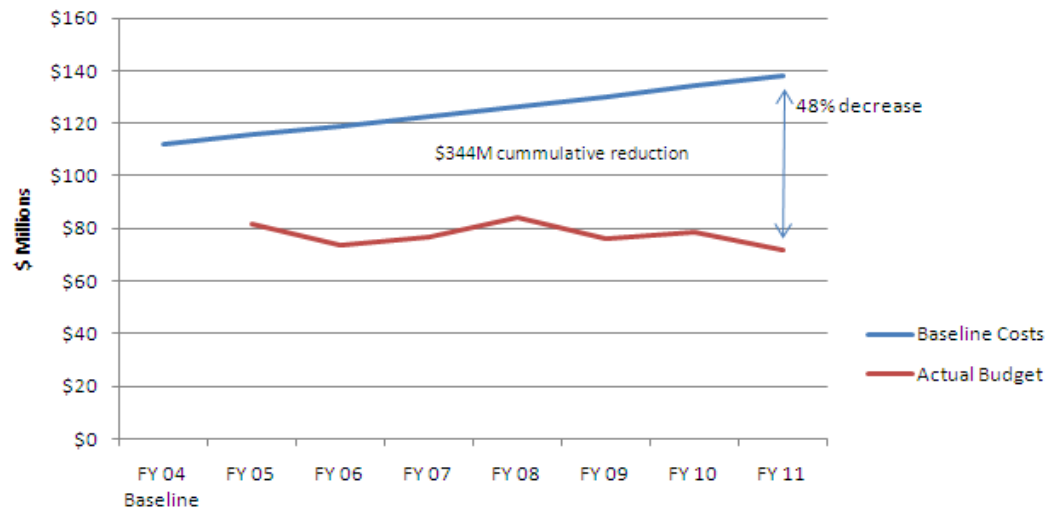
- Historical & Current Systems Profile
 - Investment Trends
 - Portfolio Composition
- New Imperatives and Influences
 - HSPD-12 Smart Card enablement
 - Portfolio Review & OMB Tech Stat
 - Shared Software and Data Services



CDC IT Expenditures



CDC IT Services Budget



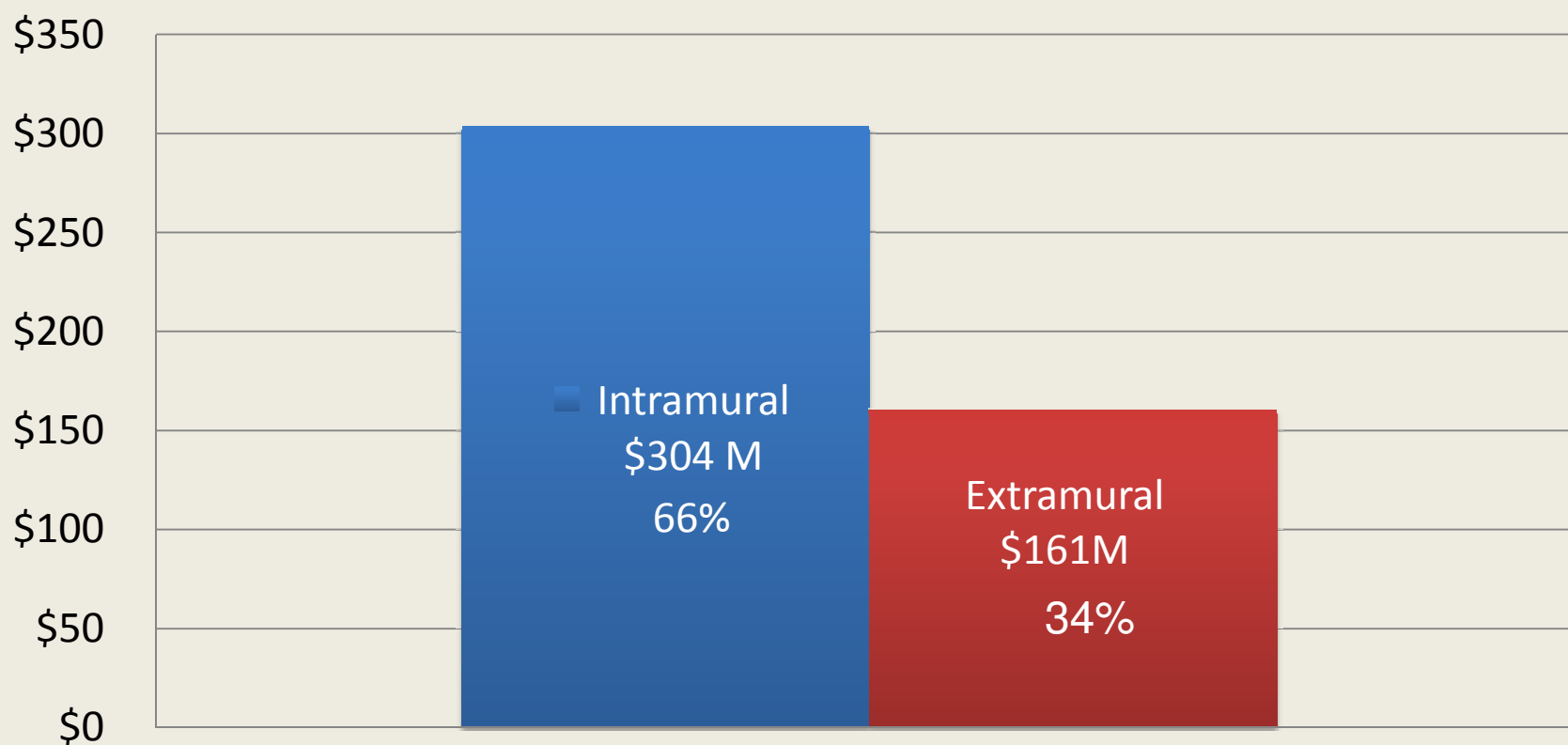
CDC FY 2012 IT Investment Composition

<u>Investment Level</u>	<u>Total Value</u>	<u>Average Cost</u>
Major (6)	\$137.6M	\$22.9M
Tactical (12)	\$64.9 M	\$5.4M
Supporting (109)	\$101.7M	\$0.9M
<u>Extramural (7)</u>	<u>\$161.2M</u>	<u>\$23.0M</u>
Total FY 2012 (134)	\$465.4M	\$3.5M



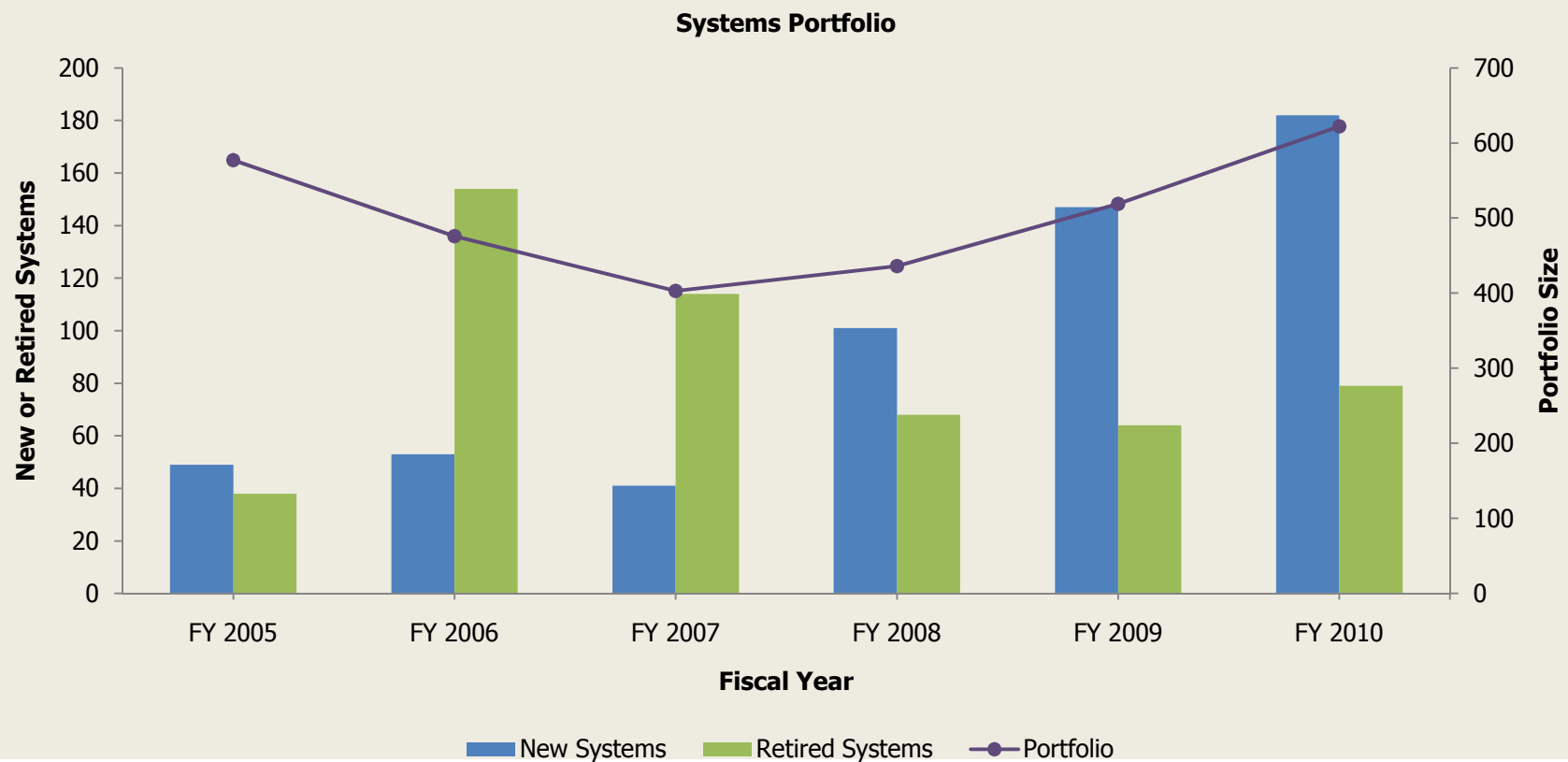
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CDC FY 2012 Investment Jurisdiction



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Number of Systems Trending



IT Systems by Organization

Center/Office	# Systems	FY 2012 Planned Budget (\$M)	Cost per System (\$M)
CGH	7	\$0.8	\$0.1
NIOSH	8	\$0.9	\$0.1
OD	153	\$45.4	\$0.3
OID	174	\$71.1	\$0.4
ONDIEH	135	\$23.3	\$0.2
OPHPR	26	\$13.0	\$0.5
OSELS	55	\$65.9	\$1.2
OSTLTS	2	\$0.1	\$0.1
Total	560	\$220.5	\$0.4

Inclusion/Exclusion Criteria

Include intramural spending only

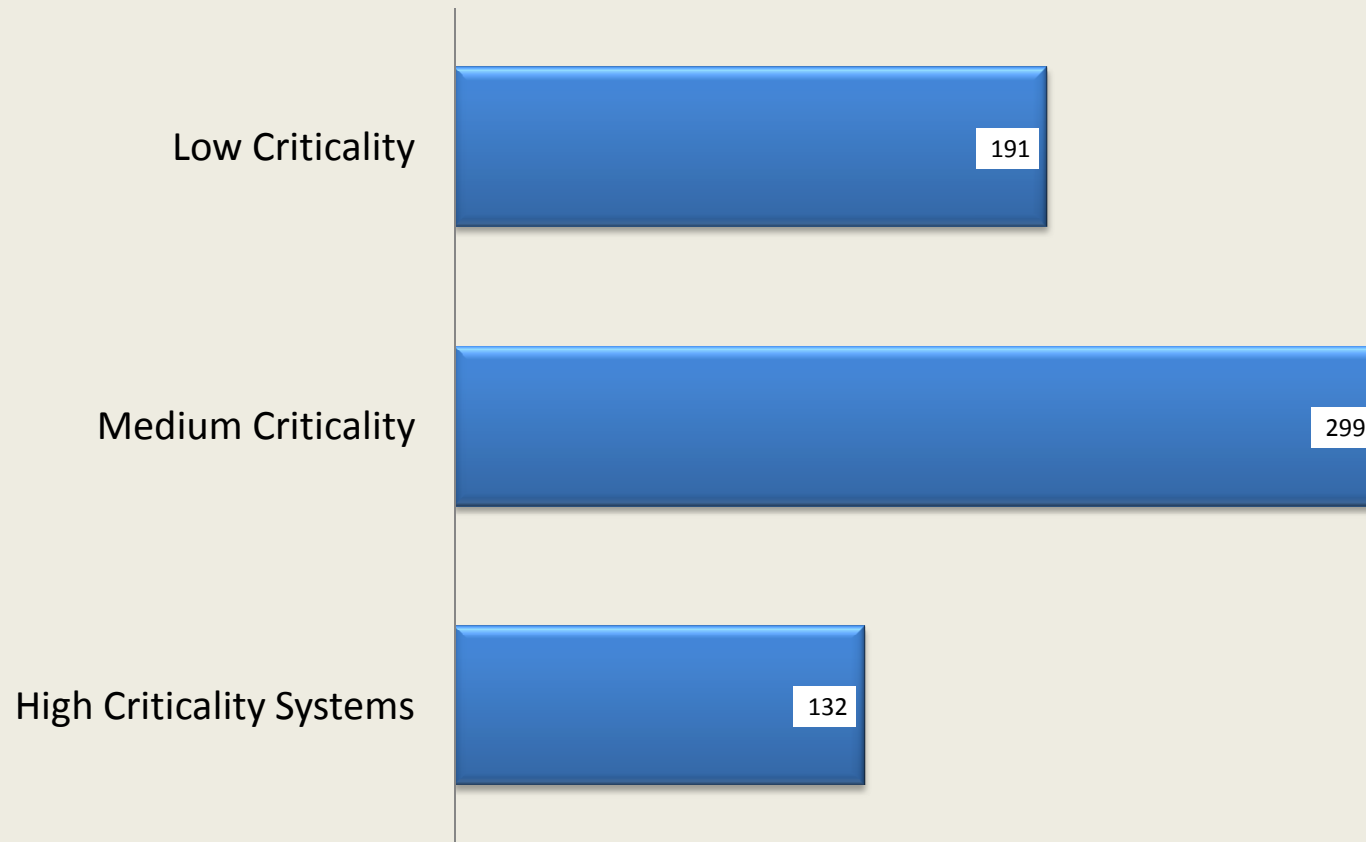
Exclude IT infrastructure

Exclude "Not Updated," "Planning," or "Planned Retirement" systems

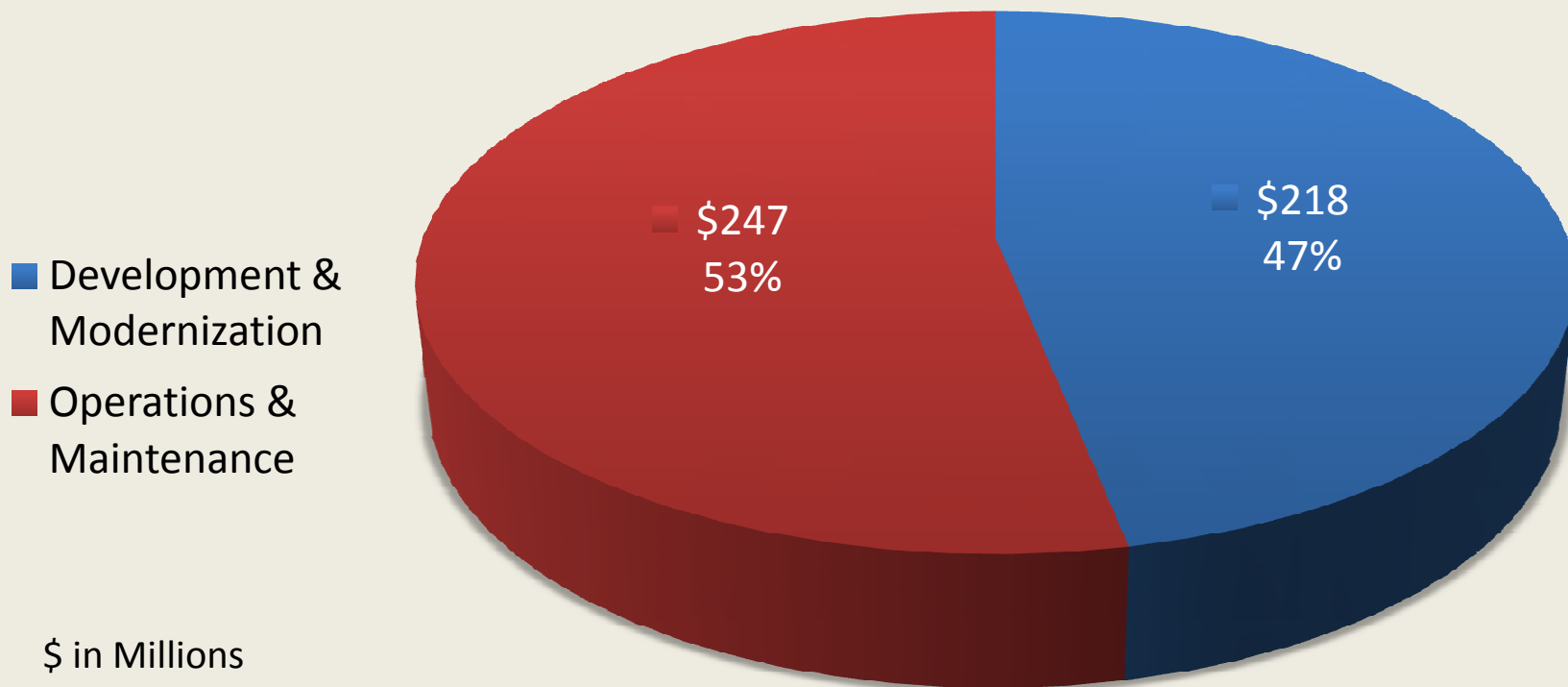


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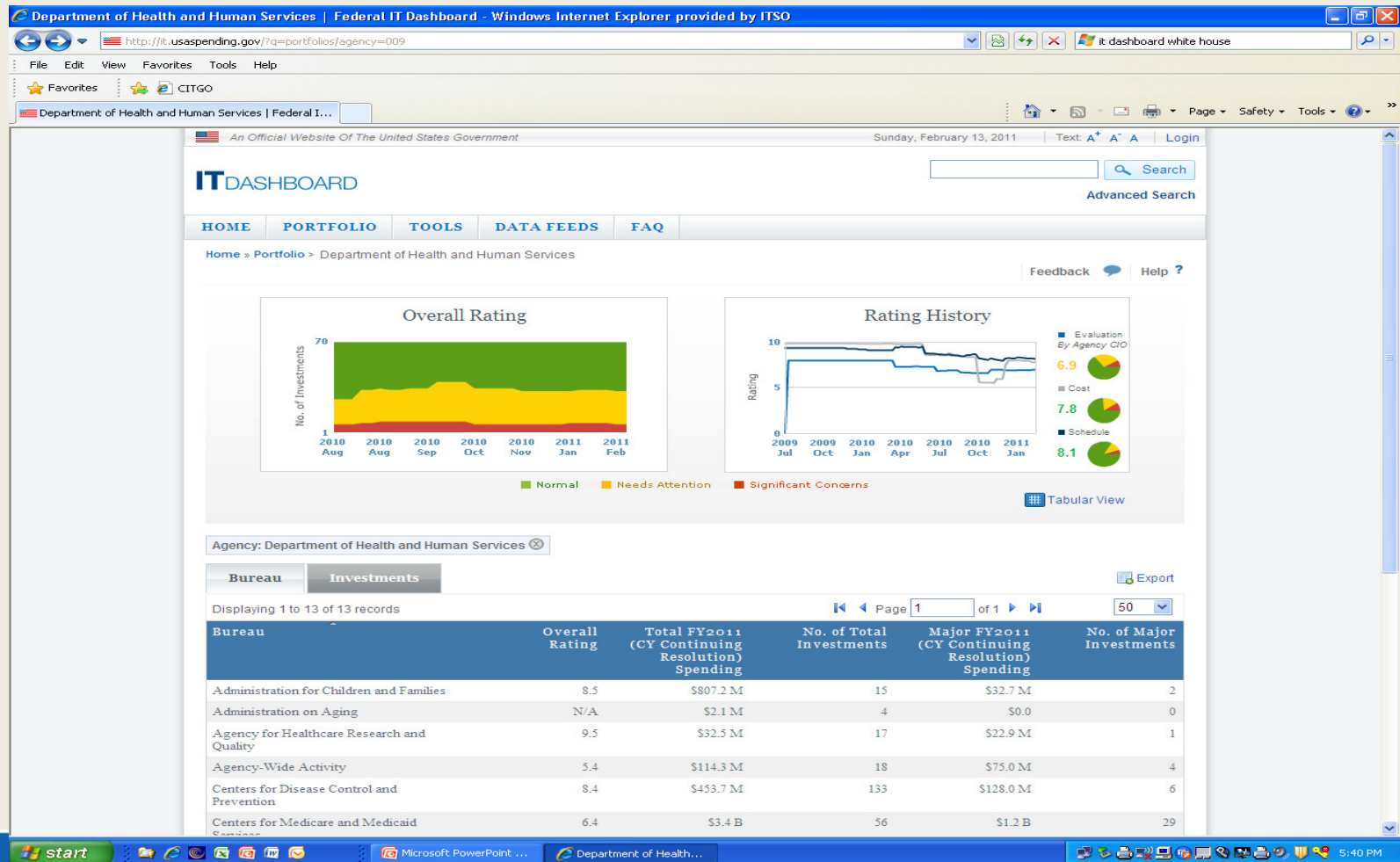
CDC Systems by Mission Criticality



FY 2012 Systems by Lifecycle Phase



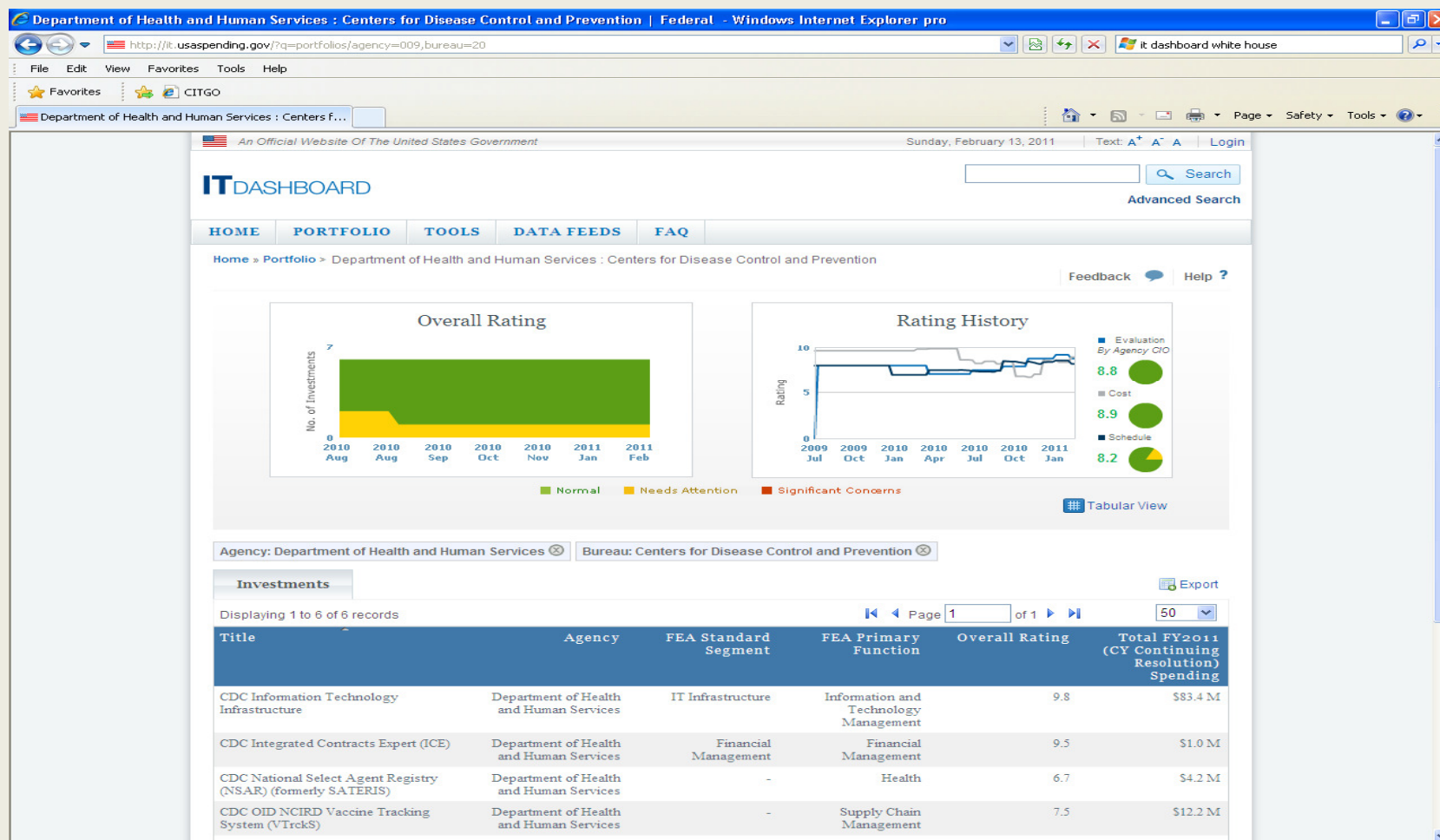
Federal IT Dashboard - HHS



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Federal IT Dashboard - CDC



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New Imperatives



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Identity & Access Management Program

- OMB Requirements and Deadlines
- CDC Milestones
- Application Assessment
- Application Smart Card Enablement



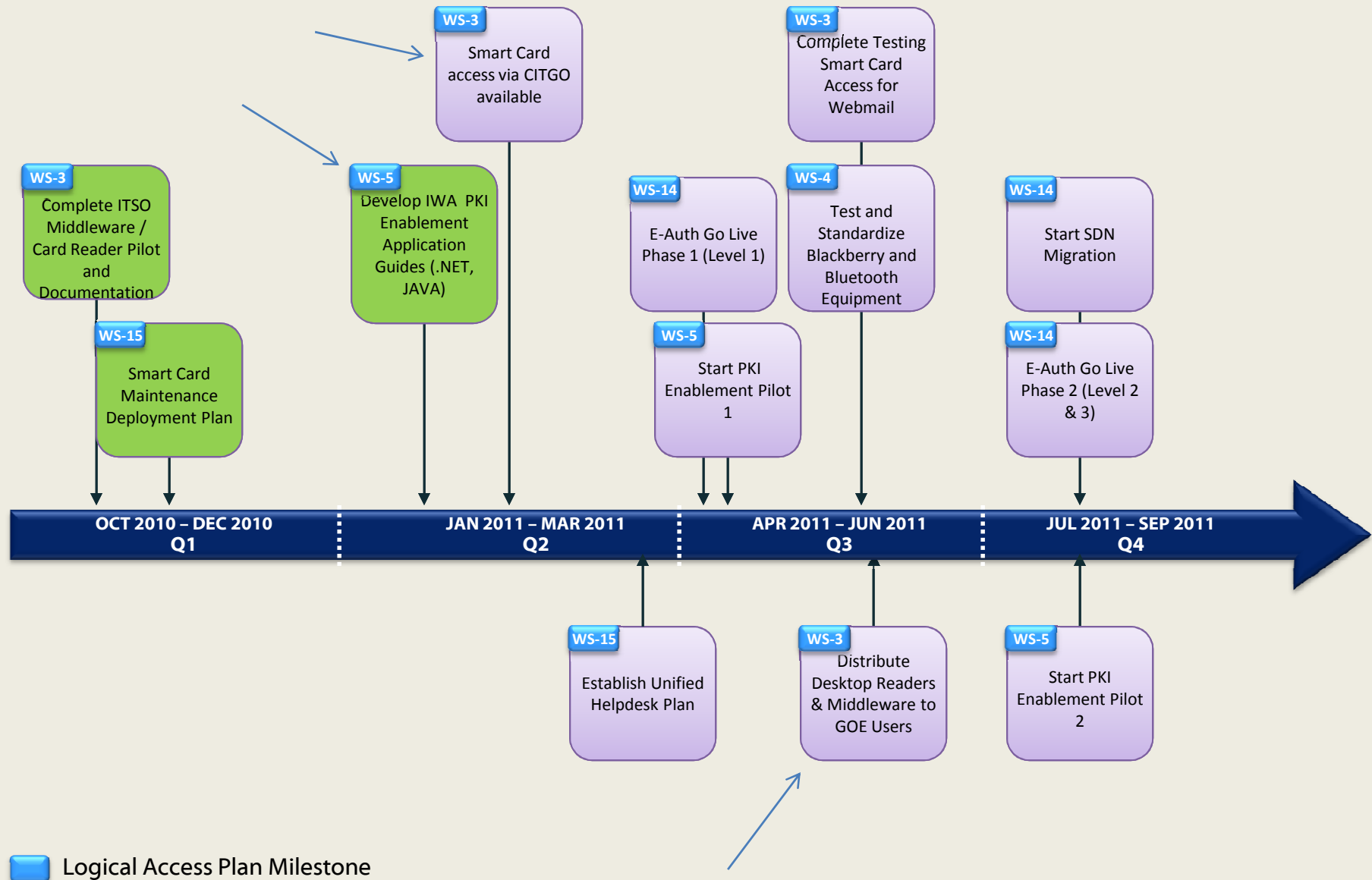
OMB Requirements and Deadlines

OMB Feb 3, 2011 Directive

- Fund HSPD-12 credential issuance using existing resources
- FY 10 - all new systems must be enabled to accept HSPD-12 credentials for authenticating Federal employees and contractors
- FY 11 - agencies must use system technology refreshment funding (DME or O&M) to upgrade existing systems to use HSPD-12 credentials
 - CDC policy to be issued in March 2011
- FY 12 - agencies shall not spend DME or O&M technology refreshment funding on systems unless they use HSPD-12 credentials to authenticate Federal employees and contractors



FY 11 Timeline for Logical Access Controls



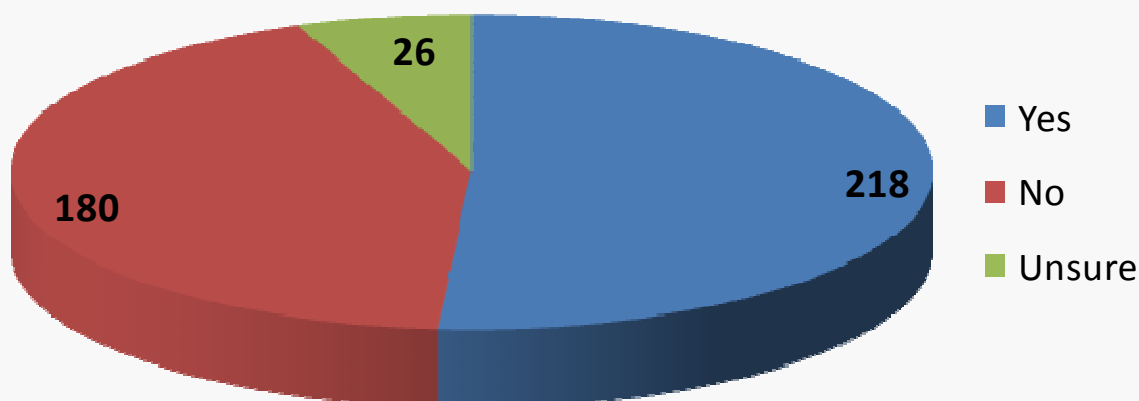
Application Assessment Survey

- CDC Application Assessment for Smart Card Enablement Survey
- Total Number of Responses: 424 (~75% responded)



Application Assessment Survey

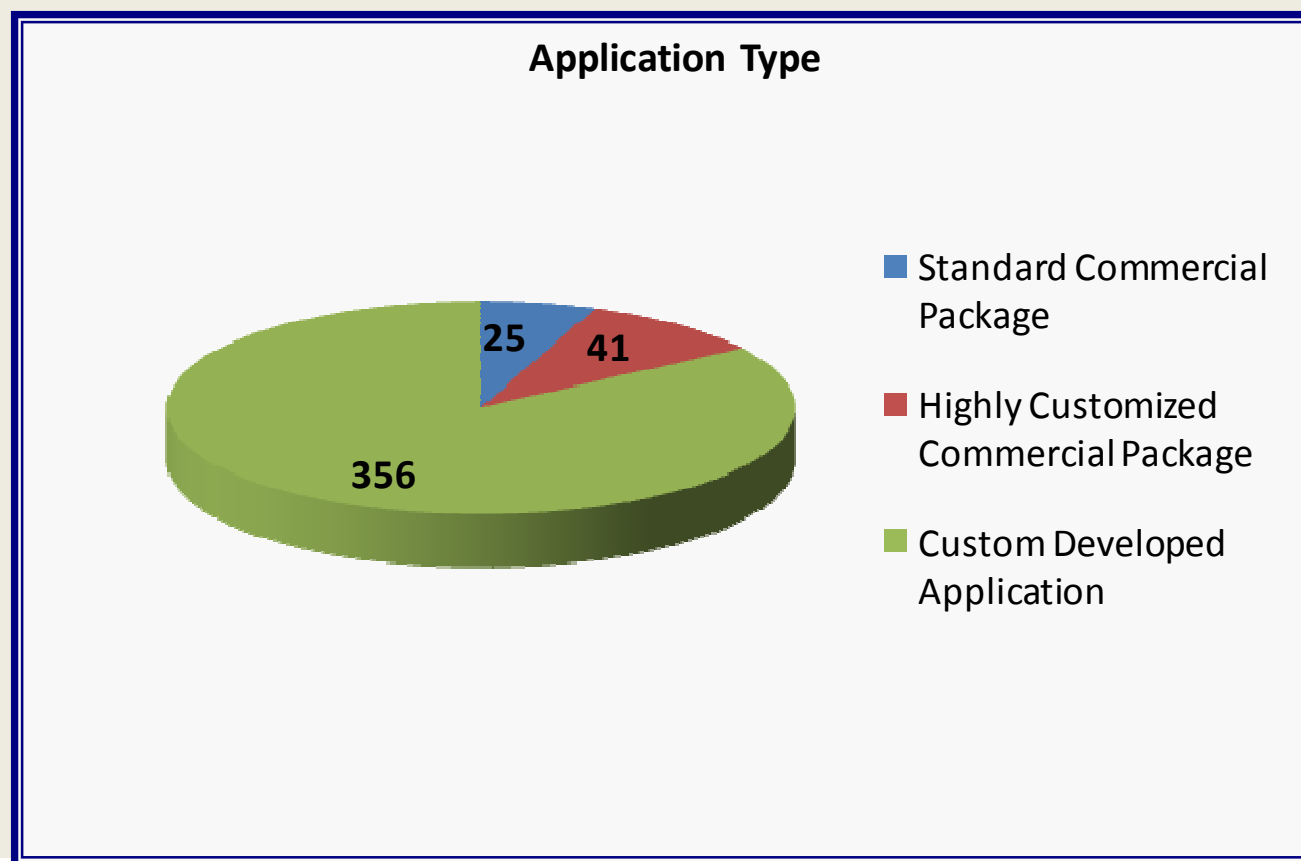
Integrated Windows Authentication



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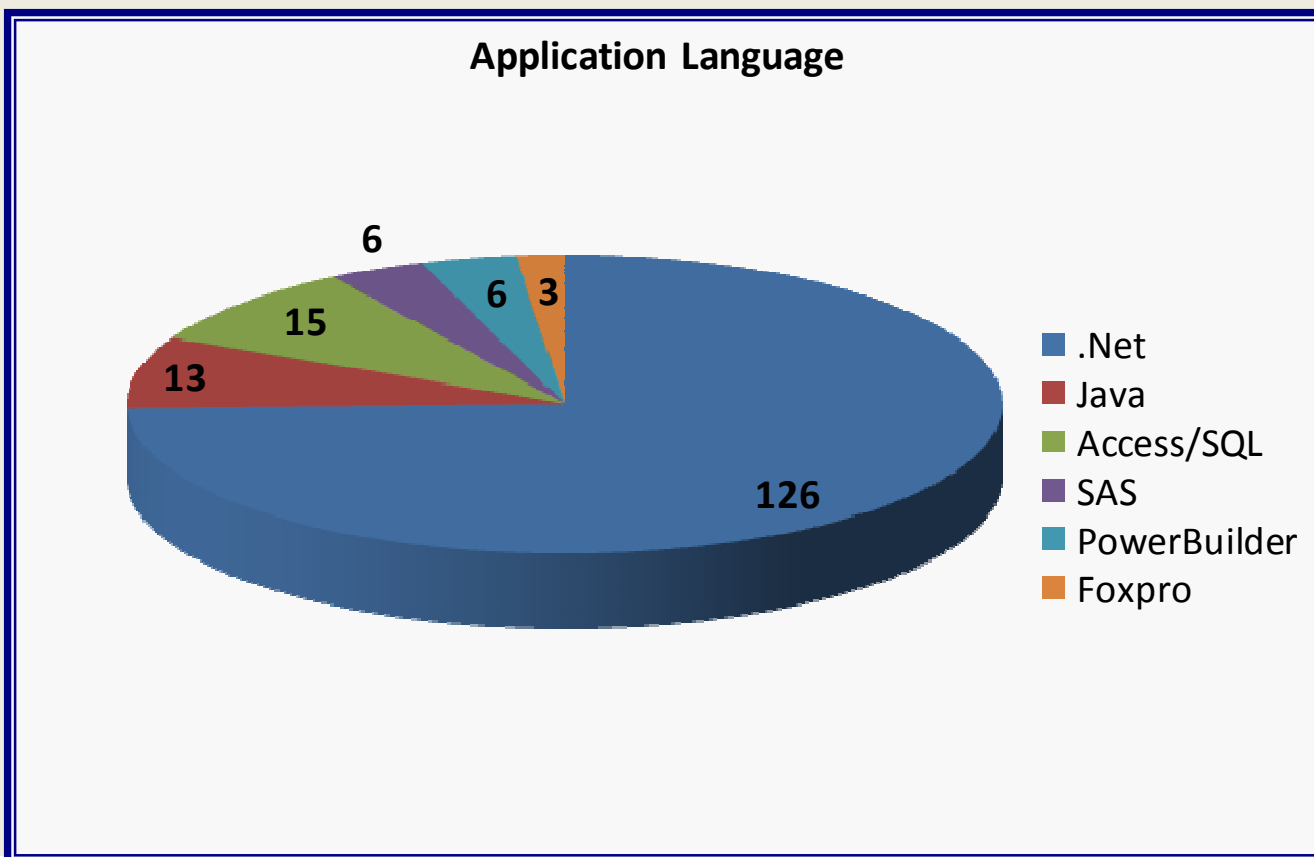
Application Assessment Survey



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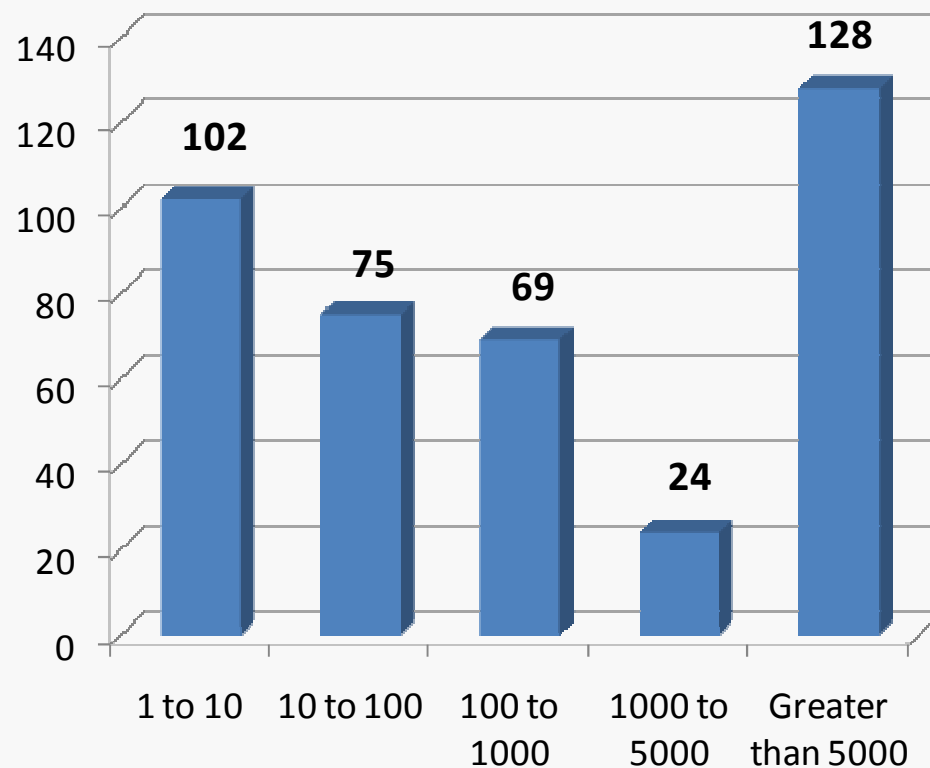
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Application Assessment Survey



Application Assessment Survey

Total User Population



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HSPD-12 Logical Access Approach

- HHS Enterprise Applications (e.g. CapHR, EWITS, LMS)
 - Plan to use Sun Identity and Access Manager-based solution
- CDC Capabilities currently using Integrated Windows Authentication (IWA)
 - Built-in, requires no additional investment
 - Leverages existing investment and infrastructure
 - Ties in with CDC Active Directory that is already PKI enabled for Smart Card authentication
- Authentication upgrades will require focused investment over time
 - Microsoft .NET applications can easily upgrade to Integrated Windows Authentication
 - JAVA/J2EE provides available, mature, bolt-on modules
 - Develop a set of generic authentication modules shared across systems



PKI-Enabling Technology Categories

Category A – IWA-type applications or with built-in PKI support

Category B – Applications that will use Sun Identity Suite

Category C – Applications that will use PKI-enablement libraries

Category D – Applications/Systems where access is limited by “PKI-enabled Vault” i.e. need a credential to login to the server

Category E – Applications where the vendor provides upgrades to PKI-enable

Category F – Applications that will be replaced (Not PKI-enabled in favor of new application)

Category G – Applications that will not be upgraded (requires justification)



Logical Access Next Steps

- Integrated Windows Authentication Guides developed for .Net and Java applications, posted on IRGC SharePoint site
- HSPD-12 PMO meeting with major CDC application groups
- Develop additional guidance documents to leverage Integrated Windows Authentication
- Develop tests to verify HSPD-12 compliance
- Establish user groups to identify impacts and requirements
- Conduct pilots and develop prototypes



CDC Systems Review

- Number of systems?
- Spending on systems?
- Redundancy/duplication?
- System development success: on-time, on-scope, on-budget?
- System performance success measures
 - meeting original intent
 - achieving performance measures
 - scale of usage and content
 - customer satisfaction



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Shared Software and Data Services

- Developing a registry of shared software and data services
 - Service name
 - Service description
 - Contact
 - Lifecycle stage
 - Information location (URL)
 - Authentication required
 - Standards supported
- Compliment to Enterprise Systems Catalog & EA Reference Guide
- Resource for developers - shared code, objects, APIs, data resources



Some Candidate Shared Services at CDC

- WONDER
 - 11 Databases of Population, Vital Statistics, and Morbidity
 - XML-based API
- Security Services (SDN and IAM.Net Services)
 - Identification, Access, and Credentialing Services
- PHIN Services
 - PHIN-MS (Messaging), PHINDIR (Directory), PHIN-VADS (Vocabulary)
- GIS Mapping/Geospatial Services
- People Repository (other HR Services)



Questions?



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